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PATENT

Docket No.: 58210US004

32692

Customer Number



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

JASON R. FINK, KEITH B. GORDEN,
KEVIN S. GORSKI, SHALLEY K.
GUPTA, XIAOHONG QUI and JOHN P.
VASILAKOS

Serial No.: 10/788,731

Filed: February 27, 2004

For: SELECTIVE MODULATION OF
TLR-MEDIATED BIOLOGICAL
ACTIVITY

Group Art Unit: 1644

Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 25, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Should a First Office Action on the merits be mailed prior to the filing of this Disclosure Statement, please charge the requisite \$180.00 fee (pursuant to 37 C.F.R. §§ 1.97(c) and 1.17(p)) to Deposit Account No. 13-3723.

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED
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August 11, 2004
SIGNED Judy L. Hansen

Applicants submit that the above references, whether taken alone or in combination with each other neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the captioned application is respectfully requested.

Respectfully submitted,



CHRISTOPHER D. GRAM
Registration No. 43,643
Attorney for Applicants

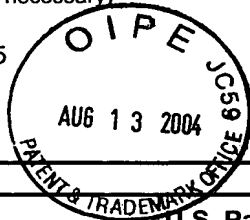
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Dated: *August 11, 2004*

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Page 1 of 5



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U.S. Patent Documents

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		Doc. Number-(Kind Code if Known)			
	A1	US- 4,689,338	08-25-1987	Gerster	
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	A3	US- 4,929,624	05-29-1990	Gerster et al.	
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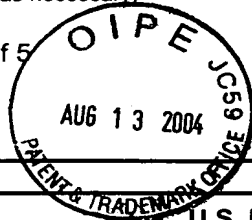
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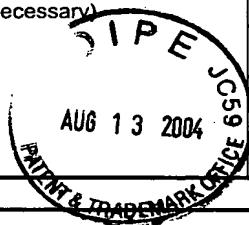
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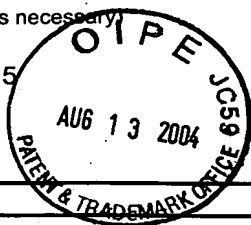
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Foreign Patent Documents

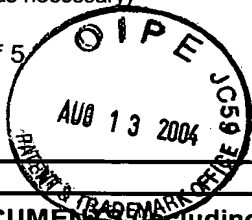
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	B1	EP	0 394 026	10-24-1990			X
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	B24	WO	03/043572 A2	05-30-2003			X
	B25	WO	03/045391 A1	06-05-2003			X
	B26	WO	03/103584 A2	12-18-2003			X

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OTHER DOCUMENTS (including Authors, Title, Date, Pertinent Papers, etc.)		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.
	C2	Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)
	C3	Brassard et al.; "Interferon- α as an immunotherapeutic protein"; <u>Journal of Leukocyte Biology</u> ; Vol. 71; April 2002; pgs. 565-581
	C4	Izumi et al.; "1H-imidazo[4,5-c]quinoline Derivatives as Novel Potent TNF- α Suppressors: Synthesis and Structure-Activity Relationship of 1-, 2-and 4-Substituted 1H-imidazo[4,5-c]quinolines or 1H-imidazo[4,5-c]pyridines"; <u>Bioorganic and Medicinal Chemistry</u> , Vol. 11, pp. 2541-2550 (2003).
	C5	Hornung et al., "Quantitative Expression of Toll-Like Receptor 1-10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides ¹ ", <u>The Journal of Immunology</u> , 2002, 168; pgs. 4531-4537.
	C6	Hemmi et al., "Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent Signaling pathway", <u>Nature Immunology</u> , vol. 3, no. 2; February 2002; pgs. 196-200.
	C7	Medzhitov, "Toll-Like Receptors and Innate Immunity", <u>Nature Reviews Immunology</u> , Vol. 1; November 2001, pgs. 135-145.
	C8	Jurk et al. "Human TLR7 and TLR8 independently confer responsiveness to the antiviral compound R-848", <u>Nature Immunology</u> , June 2002, vol. 3, no. 6; pg. 1.
	C9	Akira et al., "Toll-like receptors: critical proteins linking innate and acquired immunity", <u>Nature Immunology</u> , August 2001, vol. 2, no. 8; pgs. 675-680
	C10	Heil et al.; "Synthetic immunostimulatory compounds activate immune cells via TLR7 and TLR8"; 33th Annual Meeting of the Deutsche Gesellschaft für Immunologie, Marburg 2002 - Abstract C.6

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